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CONTENTS

The Climate of the British Isles and its influence on the habits and
distribution of the amphibians and reptiles. By Malcolm Smith ... 103

NOTES

Distribution of the Blue-spotted Slow-worm (*Anguis fragilis* var.
colchica Demidoff) in England. By E. F. Gilmour ... 112

Toads hibernating under water. By L. F. G. Waddington ... 112

Interbreeding of the Grass Snake (*Natrix natrix*) in captivity. By J.
Lester ... 113

Adders taking to water. By John Moore ... 114

Cobra feigning death. By C. J. P. Ionides ... 114

The Zoological Record ... 115

Financial Statement ... 115

List of Members of the British Herpetological Society ... 117

Contributions should be addressed to the Editor, Dr. A. d'A. Bellairs, University Department of
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Figures should be drawn in Indian ink on plain white paper or Bristol Board.

Contributors will be supplied with 10 reprints of their articles free of charge; additional
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chased on application to the Secretary.

THE CLIMATE OF THE BRITISH ISLES AND ITS INFLUENCE
ON THE HABITS AND DISTRIBUTION OF THE
AMPHIBIANS AND REPTILES

By
MALCOLM SMITH

That the habits and distribution of certain amphibians and reptiles in this country are influenced by its climate has long been known, but no attempt to correlate the information available on these points has yet been attempted. Before dealing with the species themselves some remarks on climate in general and this country in particular are necessary. The following have been taken mainly from Bilham's "*Climate of the British Isles*", the standard work on the subject.

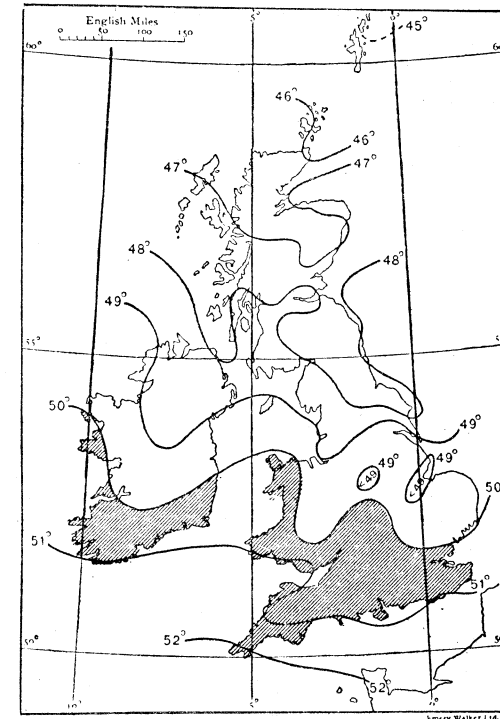


FIG. 1. Mean temperature reduced to sea level; whole year (1906 - 1935). (Areas with mean temperature above 50° F. are shaded.) From Bilham's *Climate of the British Isles*.

The climate of any region is determined in broad outline by its latitude and by its geographical position in relation to the continents and oceans.

Latitude determines the angle of the sun's rays as well as the length of the day and is therefore the chief determinant of both the intensity and duration of insolation. The mean annual temperatures over the British Isles at sea level are shown in fig. 1. The isotherms, or lines of equal mean temperature are drawn for each whole degree Fahrenheit. The temperature varies from 45° in the Shetlands to rather more than 52° in the extreme south-west of England, a total range of 7°.

Altitude also governs temperature. This roughly is 1° Fahrenheit for every 300 feet of altitude, so that when the mean average temperature of a place at sea level is known, there is no difficulty in estimating the temperature at varying altitudes in the same area. For example, the temperature at the top of Snowdon which is 3,560 feet in height and has a mean annual temperature of 50.2° at its foot, would be 38.3°.

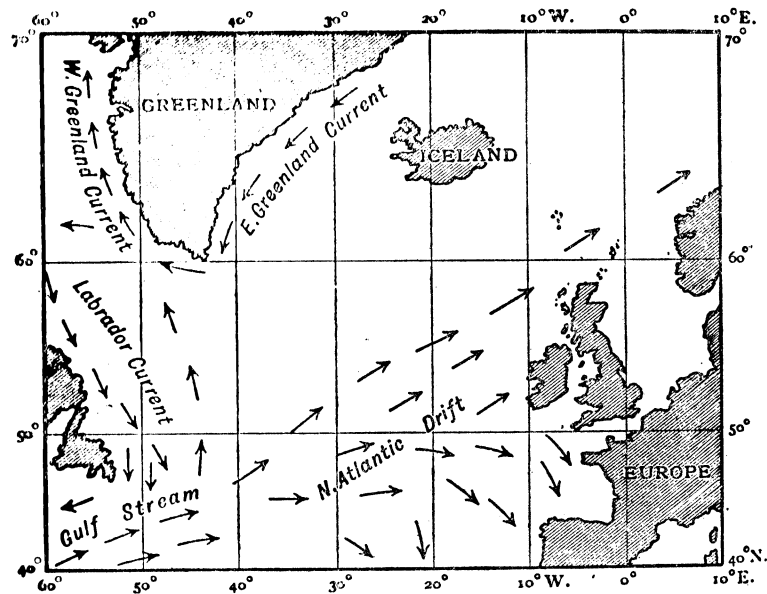


FIG. 2. Currents in the North Atlantic Ocean. From Bilham's *Climate of the British Isles*.

It will be understood that the mean average variation shown and represented as a smooth curve has been obtained by averaging the monthly mean temperatures over long periods. However much conditions may be disturbed by changes due to ephemeral causes there are persistent underlying rhythms and patterns in our weather phenomena. In fig. 1 the average is for 30 years and that is the time usually reckoned to give fair figures. The lines shown cannot be used to define the temperature of a place on any particular date. Our weather tends to be made up of cold and warm spells with

temperatures up to 10° above normal, followed by a cold spell with temperatures well below normal, or vice versa.

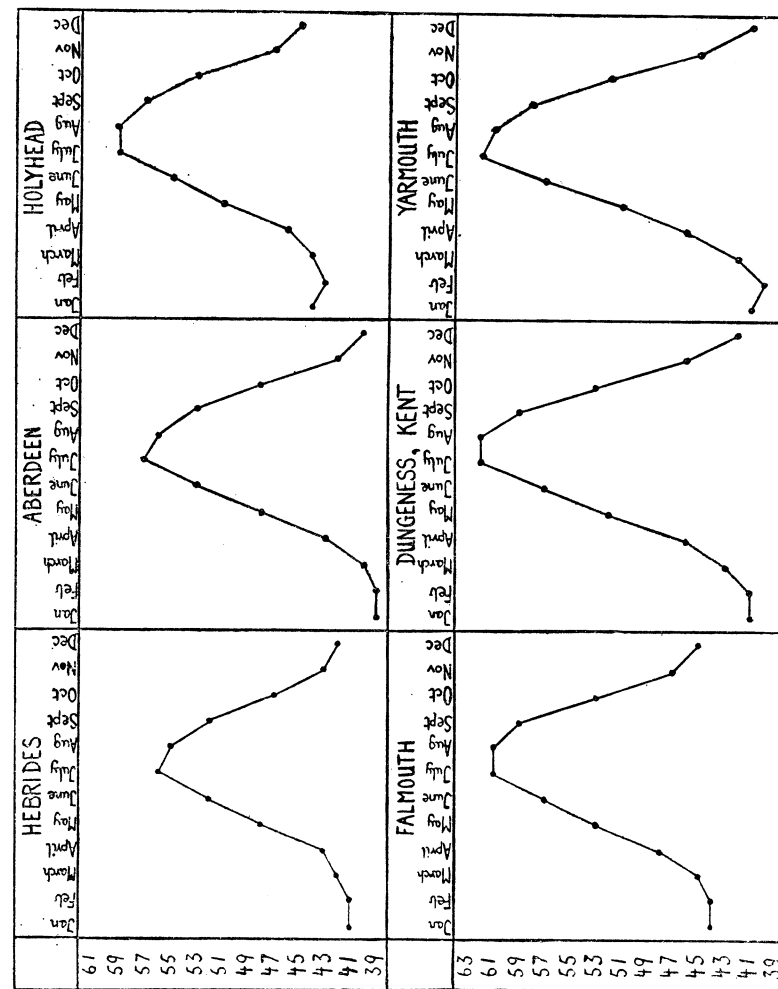


FIG. 3. Average monthly temperature throughout the year at 6 stations. Compiled from Bilham.

In northern latitudes the day is longer in the summer than in the south and shorter in the winter. At Latitude 50°, for example, there are 16.30 hours of daylight on June 21, the summer solstice, but 18.75 hours at Latitude 60°, a difference of 2.45 hours. But the path of the sun across the horizon is considerably lower at 60° than it is at 50° and the heat derived from it is not so great. The greater length of the summer day in the north does not compensate for the lack of heat.

The higher temperatures on the west of the British Isles are due entirely to the Gulf Stream, so called because it originates in the Gulf of Mexico where the surface temperature of the water approximates to 80°F. even in the winter months. At about Longitude 45° west, the Gulf Stream ceases to exist as a stream current but continues to move east and north towards the western seaboard of Europe, driven by the prevailing winds. This action gives rise to the North Atlantic Drift which may be regarded for practical purposes as an extension of the Gulf Stream (fig. 2). It is to these prevailing winds, warmed by the seas over which they pass, that we owe the mild and moist winters which are such a feature of our climate.

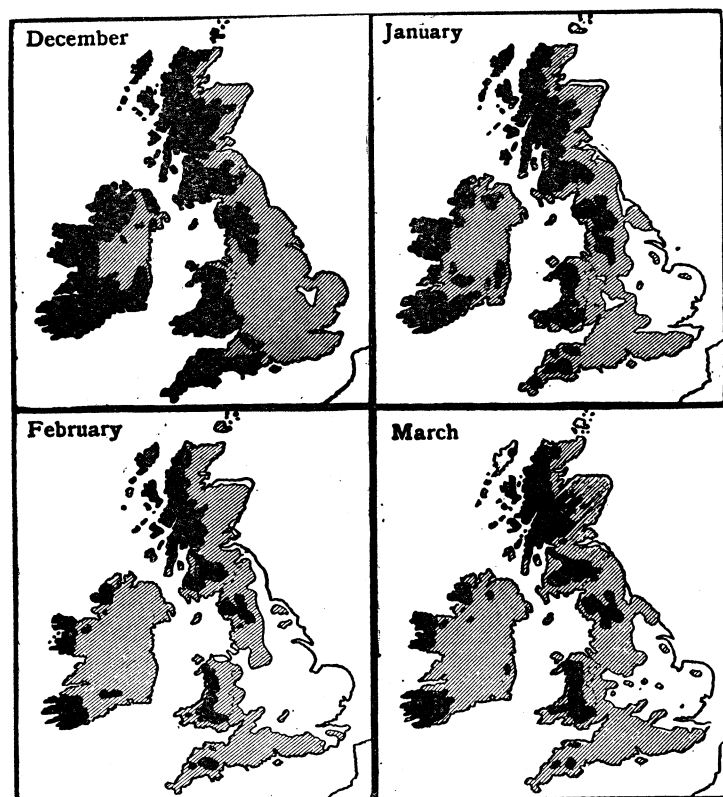


FIG. 4. Monthly chart of average rainfall. Black, over 4 inches; shaded, 2-4 inches; unshaded, less than 2 inches. Based on charts in *The Rainfall Atlas of the British Isles* (Royal Meteorological Society).

As a consequence of the Gulf Stream the whole of south-western England, the coast of Wales, the south and west of Eire and the western isles of Scotland have a mean January temperature as high as that of western and parts of southern France, while Cornwall and the extreme south-west of

Eire have a mean January temperature as high as that of the Riviera (Tansley). The winter isotherms in western Europe run almost due north and south. For example, the January isotherm of 44°F. passes through the south-west of Eire, Cornwall, Brittany and thence due south to Bayonne in the elbow of the Bay of Biscay.

For comparison with fig. 1 the average temperatures throughout the year at certain stations in the British Isles are shewn in fig. 3.

Apart from temperature the most important factor governing the date of spawning of the Common Frog is probably rainfall. Rain increases the phosphate content of the water and influences the growth of the algae which form the main food of the tadpole in its early life. We know, however, too little about this aspect of the subject to form any conclusions. Fig. 4 gives the average monthly rainfall in the British Isles for those months concerned with spawning. As shewn there the rainfall is much greater in the west than in the east. What effect the comparative dryness of the east has upon the time of spawning is not known.

In the following table the dates of spawning of the Common Frog in various parts of the British Isles are given. They are based on the Phenological Returns published by the Royal Meteorological Society since 1890. The number of years recorded, for example Aberystwyth 18, does not represent 18 consecutive years, but the number of years for which records are available in that particular locality.

Phenological literature uses the day of the year from January 1 as the standard method of expressing dates. The figures 16-56 in column 2 of the table, therefore, represent those number of days from January 1.

Aberystwyth, Kingsdown and Lowestoft are on the coast; Thirsk in Yorkshire lies well inland. The records for Scotland are not many. Braemar in the Highlands lies at an altitude of 1,114 feet. West Scotland embraces the western counties as far north as North Scotland which covers all the counties north of and including Ross and Cromarty. No figures are given for Hampshire as the records for any one locality are too few to be of value. Those that are available—Portsmouth, Southsea, Hayling Island and the New Forest district—indicate a figure approximating to that of Aberystwyth and in strong contrast to the figure for Kingsdown on the extreme south-east tip of England.

Locality	Number of records	Earliest and latest dates of spawning	Average
Cornwall	19	16—56	36
Aberystwyth	18	25—79	46.7
Kingsdown	16	44—79	66.8
Lowestoft	17	71—91	79.3
Thirsk	11	34—81	67.3
Braemar	6	60—90	76
Scotland W.	9	67—83	73.6
Scotland N.	8	47—79	67.7

That the Edible Frog (*Rana esculenta*) is not indigenous to the British Isles seems a fairly well established fact. Its history in this country is of repeated introduction and after a varying number of years during which it has apparently flourished, the colonies have disappeared. Most of the introductions into England have been in the south-east, and it is only there that it has survived for any length of time. Introductions north of the latitude of the Wash have not been successful, or if so, only for a very brief period. England would appear to be too far north for the permanent survival of this species.

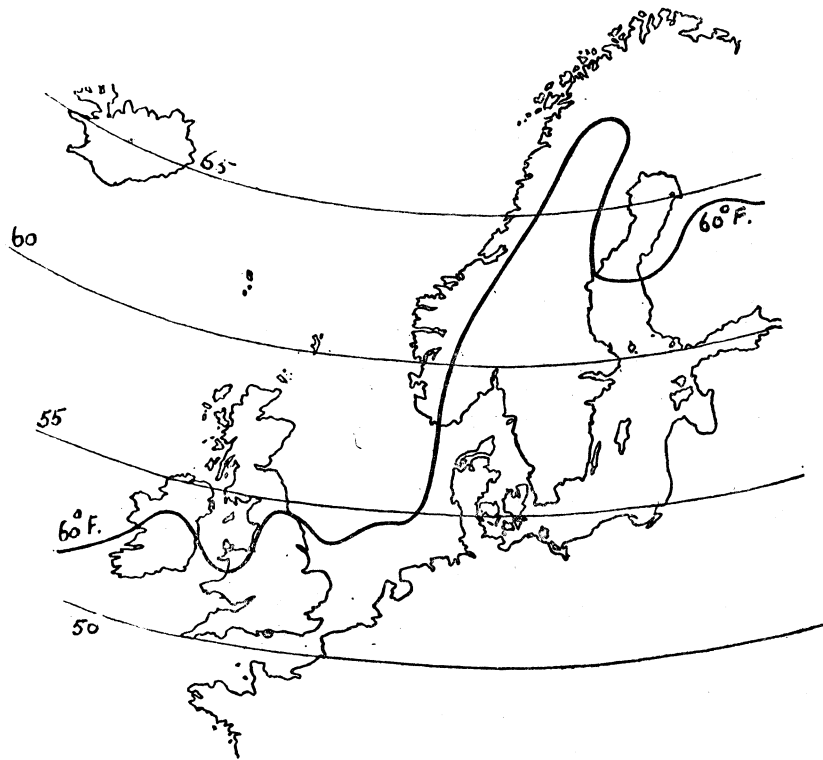


FIG. 5 Map showing July isotherms of 60° F.

One reason for failure to survive is the high mortality rate among the tadpoles. Owing to the late time of spawning of the frogs (May—June) and to the extremely variable rate of growth of the tadpoles, large numbers never complete their development. By late autumn many of them are still only half grown. Whether the water of our ponds is too cold for them or their food supply is inadequate, or possibly both, we do not know, but there is a strong resemblance between the state of affairs in a pond and that which often happens when tadpoles are reared in captivity. The ability to

survive the winter in the larval state which the Common Frog possesses is not shared by the Edible Frog for these autumn tadpoles are never seen again. On the Continent of Europe where the summers are warmer this high mortality among the tadpoles does not occur.

Another reason for failure may be the smaller number of eggs laid by the frogs in this country when compared with those on the Continent (Smith), but further data on this point is needed.

I have already pointed out (1951) that whereas the Ringed Snake *Natrix natrix helvetica* in the British Isles does not occur north of latitude 55°, the form found in Sweden, *Natrix natrix natrix*, ranges as far north as latitude 65°. This is made possible by the position of Sweden as a part of the continental mass of Europe and in consequence the higher summer temperature which "continentality" provides. The spectacular rise north of the isothermal line of 60°F. is shown in fig. 5 where it will be seen that the summer temperature of central Sweden is as high as that of the Midlands of England.

For the survival of this snake in northern latitudes the vital factor is the intensity and duration of the summer heat to enable the embryos to develop, first of all in the body of the mother and later on in the eggs after they have been laid. The greater severity of the winter in Sweden when compared with that of England does not affect the life of the snake, for hibernation under the right conditions can be endured for long periods without any harm to the animal.

The breeding time of the Ringed Snake in this country occupies about four and a half months. Mating takes place during the latter half of April and in May, the eggs are laid in June and July and the young emerge in late August or the first half of September. All the warm months of the year are needed to complete the development of the young before winter comes, leaving only a small margin of time available should conditions not be favourable. The need for the Ringed Snake to seek extra warmth, when available, for the hatching of its eggs is of the utmost importance. It is during these warm, summer months also, that the eggs laid down in the ovaries of the female in the spring and which will become the brood of the following year, begin their development.

The eggs when laid will hatch in about six weeks if kept at a temperature of between 70° and 80°F., but such temperatures can only be maintained when the eggs are laid in places where some form of artificial warmth is being generated, such as in manure heaps or in piles of rotting vegetation. The exact temperature of these "nests" has never been recorded and it would naturally vary with the type of fermentation that is going on at the time. At temperatures lower than 70°F. more than six weeks is required for development. Under "cold" conditions, in fact such as where no extra warmth is available, the eggs may—and in this country frequently do—fail to develop before the winter comes and in consequence the young perish. This would apply particularly to eggs that have been laid late in the season.

The range of the ovo-viviparous Smooth Snake (*Coronella austriaca*) is probably also governed by climatic conditions. In England it is restricted to a few counties in the extreme south; in Sweden it ranges as far north as Latitude 63°. The gestation period is not known but it probably takes all the warm months of the year for the young even in central France, as in England, are not born until late August or early September.

In the following table the maximum, minimum and mean temperatures of four stations in England and Scotland are given and the steady fall in the mean temperature with each station farther north is there shewn. Only the months concerned with the reproductive cycle of the snakes are included in the table.

AVERAGE FOR THE THIRTY YEARS 1905 TO 1935

From the Stationery Office Report M.O.407

Maximum	Minimum	Mean	Month
WISLEY, Surrey			
55.0	38.6	46.8	April
63.7	44.6	54.1	May
68.3	48.6	58.5	June
71.6	52.8	62.2	July
70.8	52.5	61.7	August
65.9	48.3	57.1	September
WORKSOP, Notts.			
55.3	37.2	46.3	April
62.5	43.0	52.7	May
67.4	47.6	57.5	June
70.8	51.5	61.1	July
69.9	51.0	60.5	August
65.2	46.7	55.9	September
TYNEMOUTH, Northumberland			
49.3	39.7	44.5	April
53.9	44.1	49.0	May
59.7	49.3	54.5	June
64.7	53.9	59.3	July
63.8	53.1	58.5	August
60.3	50.1	55.2	September
EDINBURGH, Scotland			
49.5	37.9	43.7	April
55.0	42.7	48.9	May
60.9	47.5	54.2	June
64.0	51.3	57.7	July
63.0	51.1	57.1	August
59.2	47.6	53.4	September

In fig. 6 the average for three stations is shewn as a graph. It will be observed that the mean averages at Kew for the months of May and June are not reached at Tynemouth until June and July respectively.

Another method by which the shorter spring and summer of the north can be shewn is by the later flowering times of trees and plants. In the following table the average flowering times of four common species are given.

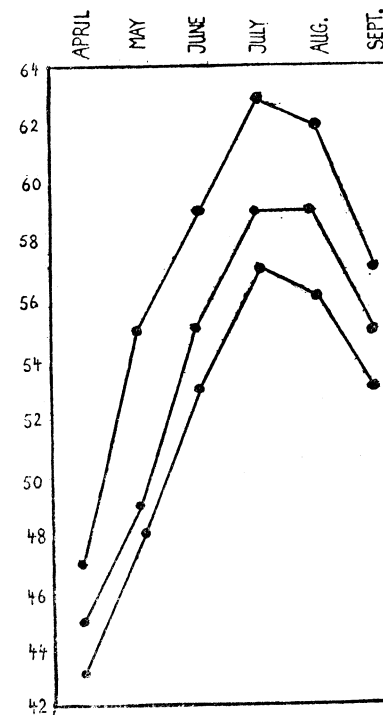


FIG. 6. Spring and summer ranges of temperature at: 1: Kew; 2: Tynemouth; 3: Aberdeen. Compiled from Bilham.

	Horse Chestnut	Hawthorn	White Ox-eye	Dog-Rose	
Number of Records	...	31	45	43	44
WIMBLEDON, Surrey	...	114	122	143	153.7
THIRSK, Yorkshire	...	129	130	152.4	162
BRAEMAR, Aberdeen	...	163	165.7	169.5	179

Average flowering times for the years from 1902 to 1947. Not all years have records. The numbers, for example Wimbledon 114, refer to the number of days after January 1. Compiled from the Phenological Reports.

The ovo-viviparous reptiles, namely, the Slow-worm, the Viviparous Lizard and the Adder, all of which have a strong tolerance of cold, are not affected by climate in the same way as the oviparous species, for the females when pregnant can take advantage of the sunshine and by that means aid the development of the young.

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NOTES

DISTRIBUTION OF THE BLUE-SPOTTED SLOW-WORM

(Anguis fragilis var. *colchica* Demidoff) IN ENGLAND

Dr. Malcolm Smith in his volume, *The British Amphibians and Reptiles*, 1951, states that the Blue-spotted variety of the Slow-worm is "in England restricted to the southern counties. With the exception of one specimen from Epping Forest and another from Fishguard, Pembroke, it has not been found north of latitude 51° 31'." The following two records much further north of this range may prove of interest regarding this often very strikingly marked variety.

During the years 1931 to 1940 and in 1946 I have taken this variety occasionally, usually from two to six examples each year, in the valley of the river Dysynni, Merionethshire, where the typical form is often found in large numbers. In 1951 a further specimen was sent me from the same locality among a batch of half-a-dozen. In May, 1951, whilst collecting in a disused quarry at Cloughton, near Scarborough, Yorkshire, I found three Slow-worms. Two of these were adult; the third much younger. Both the adults were var. *colchica*, one having the blue spots only distributed dorso-laterally, the other having them extended over the back. This latter specimen is still living in the Museum vivarium.

Museum of Natural History,
The Crescent, Scarborough.

E. F. GILMOUR.

The Blue-spotted Slow-worm has also been reported from other districts north of Latitude 51° 31', namely, at Holt in Norfolk (R. M. Holmes), the Gloucester-Hereford border (J. F. D. Frazer), and at Highley, between Bewdley and Bridgnorth in Shropshire (K. A. Stone). [Ed.]

TOADS HIBERNATING UNDER WATER

That frogs usually hibernate in the water of ponds is well known but there do not appear to be any records in literature that toads have the same habit. The following therefore is of interest.

In 1927 I constructed a concrete lily pond in my garden, 10 feet by 8 feet by 2 feet 9 inches in depth. A layer of sods covered by pea gravel some 6 inches in depth was put in as a foundation for the lilies and this was

gradually increased year by year by the influx of dead leaves. Frogs (*Rana temporaria*) spawned in the pond the spring after it was built and a year later toads (*Bufo bufo*) followed suit. In subsequent years both species availed themselves regularly of the accommodation thus provided.

A few years after the pond had been built I decided to fence off a corner in order to grow some Flags (*Iris pseudacorus*). This involved draining the pond and clearing it of the mud at one end. About mid-November the water was siphoned off and as soon as the bottom mud was fully exposed I waded in to clear it from the corner that had been selected. Almost at once a frog was exhumed. It was quite torpid but shewed signs of animation as soon as it had been rinsed in water and placed in my hand. The next few spadefulls revealed more frogs, and then a toad was discovered. It also was torpid but when cleaned and placed in my hand quickly responded to the warmth. Subsequent digging shewed that in about 4 square yards of mud 17 frogs and 5 toads were in hibernation. These were later returned to the pond.

In the following spring both frogs and toads were spawning as usual and they have continued to do so every year since.

8 Lawn Avenue, Doncaster.

L. F. G. WADDINGTON.

INTERBREEDING OF THE GRASS SNAKE (*NATRIX NATRIX*) IN CAPTIVITY

During 1948 a black female *Natrix natrix natrix* was acquired by the Zoological Society from Denmark. It was kept in a room at a temperature of between 70° and 80°F. and did not hibernate, feeding freely all the year round on frogs and toads. On April 12, 1951, a freshly caught English male *Natrix natrix helvetica* was placed with her. It was a very lightly coloured specimen with a well marked collar. Soon after the introduction the male shewed an interest in the female and he continued to do so for the next three weeks, during which time copulation was twice witnessed. Other males introduced at a later date did not shew any interest in the female.

On June 11, 50 days after the first mating had been seen, thirteen eggs were laid under the water dish in the cage. The soil and moss there were damp; the rest of the cage was dry. One of the eggs was infertile and was discarded. The remaining twelve were divided into two lots; six were placed between layers of damp newspaper, the others in damp moss. They were kept at a temperature of between 70° and 80°F. During incubation three eggs from the newspaper and two from the moss developed a growth of mould and were removed.

On July 22, 41 days after the eggs were laid, the other eggs hatched. The young were very dark in colour but had well marked cream-coloured collars. The tip of the tongue was white. The egg-tooth was present until the fourth day. Four of the young snakes sloughed on the sixth day, the others on the seventh.

Account for the Year ending 31st December, 1950

	£	s.	d.		£	s.	d.
By Balance at 31/12/49	49	13	4	To General Expenses	11	8	6
„ Subscriptions	92	13	6	„ Postage	22	3	6
„ Sales of Journal	2	10	9	„ Journal No. 3	40	5	0
„ Donations	2	2	0	„ Cash in hand	4	7	0
				„ Bank balance	68	15	7
	<hr/>				<hr/>		
	£146	19	7		£146	19	7

Audited and found correct, 21/7/1951.

Mr. H. G. DENVIL, Mr. B. M. SMITH.

A. G. LEUTSCHER,

Hon. Secretary and Treasurer.

LIST OF MEMBERS
OF THE BRITISH HERPETOLOGICAL SOCIETY

* Denotes life member.

† Committee Members still serving.

The date after the entry is the date of membership.

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AHRENFELD, R. H., L.R.C.P., Binstead Place, nr. Alton, Hants	1949
ALEXANDER, James, Regional Intelligence Office, H.Q. Hanover District, Hanover, Germany, B.A.O.R. 5	1951
ALLEN, S. E., Fir Villa, Station Road, Liss, Hants	1950
ALLIN, W., 159 Higher Road, Ormston, Lancs	1951
ANCOCK, F. B., Interlaken, Woodfield Road, Hadleigh, Essex	1951
ARBIN, Mrs. Elizabeth, F.Z.S., 68 Cross Lane East, Gravesend, Kent	1951
BAKER, J. E., F.R.H.S., Holly House, Chelwood Gate, Haywards Heath, Sussex	1951
BARFORD, J. D., 127 Moore Avenue, Wibsey, Bradford, Yorks	1950
BARKER, J. A., 27 Finchley Way, London, N.3	1950
BARTLETT, C. A., B.Sc., 125 Tring Road, Aylesbury, Bucks	1950
BARLETT, Mrs. Sheila M., 45 Broadway, Cardiff, Wales	1950
BATTERSBY, James C., B.E.M., British Museum (Natural History), Cromwell Road, London, S.W.7	1947
BAYLISS-STOKES, Dr. H., L.R.C.P., c/o Grindlay & Co., 54 Parliament Street, London, S.W.1	1948
†*BELLAIRS, A. d'A., University Dept. of Anatomy, Cambridge	Editor 1948
BISHOP, D. J., 5 Jamaica Road, Malvern Link, Worcs	1948
BLACKIE, Dr. R. C., PH.D., Royal Albert Memorial Museum, Exeter, Devon	1947
BLACKWELL, K. F., Gasworks House, Weedon, Northants	1948
BLAKE, A. E., K.L.B., F.R.E.S., F.R.H.S., Marokko, 165 Lynton Road, Harrow, Middlesex	1947
BONE, W. A., 13 Weighton Road, Harrow Weald, Middlesex	1949
BONNER, W. N., 39 Mountview Road, London, N.4	1952
BOURNE, M. S., 1 Fairmead Road, Northenden, Manchester, Lancs	1950
BOYCE, G. F., Pixham, Nimrod Road, London, S.W.16	1950
BOYD, Professor James D., M.A., M.Sc., M.D., University Dept. of Anatomy, Cambridge	1948
BOYD, Professor W. E., M.D., 17 Sandyford Place, Glasgow, C.3	1950
*BOYD-WATT, Mrs. W., M.B.O.U., F.Z.S., San Simeon, 52 Wimbourne Road, Bournemouth, Hants	1949
BRIGHTMAN, F. H., B.Sc., 27 Amherst Drive, St. Mary Cray, Kent	1950
BRINDLE, James, 19 Pope Lane, Penwortham, Preston, Lancs	1951
BROADHURST, T. A. V., 86 Dragon Parade, Harrogate, Yorks	1948
BRODIE, Mrs. C. V. M., Brodie Castle, Forres, Moray, Scotland	1947
BROWN, B. C., Strecker Museum, Baylor University, Waco, Texas, U.S.A.	1952
BROWN, E. E., Davidson College, Davidson, N.C., U.S.A.	1951
BROWN, E. R., 63 Comiston Road, Edinburgh 10	1949
BROWN, F. C., F.Z.S., The Old Post Office, Wrythe Lane, Carshalton, Surrey	1949
	Committee 1952
BROWN, Dr. O. H., L.R.C.P., M.R.C.S., 77 Woodbridge Hill, Guildford, Surrey	1948
BRYANT, G. R., 42 Charter Road, Altrincham, Cheshire	1950
BUNTING, Wm., F.R.E.S., 27 Alexandra Street, Thorne, nr. Doncaster, Yorks	1948
BURT, E. C., 4010 West 21st Street, Topeka, Kansas, U.S.A.	1949
BURY, Viscountess Nairi, Mount Stewart, Newtonlands, Co. Down, Northern Ireland	1951
BUSHNELL, R. H. G., 36 Glebe Road, London, N.3	1948
BUTLER, Vincent, 8 Riverside Court, Chesterton, Cambridge	1948
BYRN, J. W., B.S., M.S., 118 Clark Avenue, Billings, Montana, U.S.A.	1949
CAGLE, Fred. R., Tulane University, New Orleans 18, Louisiana, U.S.A.	1952
CALLOW, Miss Joyce B., 2 St. Mary's Avenue, Teddington, Middlesex	1949
CARNELL, J., 129 Welbeck Road, South Harrow, Middlesex	1948

CARR, Douglas O., 13 Finmart Road, Greenock, Scotland	1947
CARTER, G. F., 19 Dale End, Chatham, Kent	1950
CARTER, J. R. L., The Old Vicarage, Markyate, Hertfordshire	1951
CARTER, R. C., 25 Myatt Road, Brixton, S.W.9	1950
CASTLE, M. P., 37 Elmdale Road, Chessels, Bristol, 3	1948
CHANDLER, M. R., 3 Blenheim Road, Moseley, Birmingham, 13	1949
CHAPMAN, Albert, 31 Dulwich Village, London, S.E.21	1948
CHARTER, J. R., 36 Northumberland Avenue, London, E.12	1950
CHATFIELD, Miss A., 865 Lea Bridge Road, London, E.17	1951
CLARK, D. J., 39 Welch Road, Southsea, Hants	1950
CLARK, F. N., c/o Lewis's Ltd., Bull Street, Birmingham	1949
CLARKSON, D., 3 Birch Street, Bacup, Lancs	1950
COCKS, E., Crabtree, Hamm Court, Weybridge, Surrey	1947
COLERIDGE, W. L., Ess Hill, Ashburton Road, Newton Abbot, Devon	1950
COLEY, P. J., 54 Tweedale Road, Carshalton, Surrey	1950
*COLLEY, Wm., 6 Plainfield Terrace, Newton Street, Boswells, Roxburghshire	1950
CONAN-DOYLE, D. P. S., F.Z.S., F.R.G.S., c/o The Manager, Lloyds Bank Ltd., 125 Oxford Street, London, S.W.1	1949
CONANT, Roger, Philadelphia Zoo, Philadelphia 4, Pa., U.S.A.	1948
COOK, D. G., 41 Sandhurst Road, London, N.W.9	1950
COOK, Kenneth D., Manstone, Ridgemount, Guildford, Surrey	1948
COOKE, Kathleen, 28 Poulet Gardens, Twickenham, Middlesex	1948
*CORKHILL, Dr. N. L., M.D., F.Z.S., 3 Wykeham Lodge, Woodend Road, Torquay, Devon	1948
COURTENAY, T. H., 8 Balmoral Road, Enfield, Middlesex	1951
CRAMP, A. C., Palmers School for Boys, Grays, Essex	1952
CROWTHER, Major W. C., T.D., M.A., Polteana, Looe, Cornwall	1948
CUMMINS, R. J., 950 East Oak Street, Louisville 4, Kentucky, U.S.A.	1951
D'AETH, A. H., F.Z.S., 45 Ormonde Terrace, London, N.W.8	1947
DAGLISH, Eric Fitch, B.Sc., Ph.D., The Old Farmhouse, Speen, Aylesbury, Bucks	1947
DALE, G. E., 11 Constable Drive, Littleover, Derbyshire	1949
DALRYMPLE-CHAMPNEYS, Sir Weldon, Bt., M.A., Ministry of Health, Whitehall, London, S.W.1	1948
DALTON, R. F., M.A., Red Bridge, Moreton, nr. Dorchester, Dorset	1950
DARLEY, A. I., 18 Gascoigne Road, Barking, Essex	1950
DARRAH, W. N., 16 Whitelow Road, Heaton Moor, Stockport, Cheshire	1951
DAWSON, R. W. B., 40 Birch Lane, Longsite, Manchester, 13	1948
DAY, Lionel E. H., F.R.P.S., M.B.O.U., 24 Inverness Avenue, Westcliff-on-Sea, Essex	1949
DAYNES, G. J., 3 South Eastern Avenue, London, N.9	1951
DENNISON, E. B., 26 Jenton Avenue, Bexleyheath, Kent	1948
DENVIL, H. G., 4 Warwick Road, Coulsdon, Surrey	1948
DERBY, J. P., Allendale, Stanley Road, Thundersley, Essex	1950
DILLON, Miss M., Hendregadredd, Pentrefelin, Criccieth, North Wales	1951
DOWLING, Herndon G., Haverford College, Haverford, Pennsylvania, U.S.A.	1948
DUELLMAN, Wm. E., Museum of Zoology, Michigan University, Ann Arbor, Michigan, U.S.A.	1948
DUKES, Maurice, Lounde, nr. Lowestoft, Suffolk	1948
DURRELL, Gerald, 52 Saint Albans Avenue, Bournemouth, Hants	1949
DYDE, Charles Edward, Delhi, Edward Road, Clevedon, Somerset	1952
EAST, Kenneth, 34 Elmwood Road, Hilsea, Portsmouth, Hants	1948
EASTWOOD, D. T., F.Z.S., 85 Sturdee Avenue, Gillingham, Kent	1950
*EDLSTAM, Carl, Karlav 9, Stockholm, Sweden	1947
EDMONDS, C. H. W., 101 Fifth Avenue, Queen's Park, London, W.10	1950
EDWARDS, A. S., M.A., F.L.S., Burroughsmere, Lurgashall, Petworth, Sussex	1947
EDWARDS, D. M., 9 Crescent Road, Sidcup, Kent	1951
ELKAN, Dr. E., 62 Woodhall Gate, Pinner, Middlesex	1951
ELLIS, Edward A., Castle Museum, Norwich, Norfolk	1948
ELWIN, Miss Marjorie, B.Sc., 79 Eastcote Road, Ruislip, Middlesex	1949
EMM, Frederick, 38 Penridge Street, London, S.E.15	1950
EVANS, Anthony G. J., 89 Queen's Road, Teddington, Middlesex	1947

FALCK, John W., 14 Allison Drive, Partown, Huddersfield, Yorks	1949
FELIX, Armand, 17 Farm Avenue, London, N.W.2	1950
FELIX, Armand, F.R.S.A., F.Z.S., 17 Farm Avenue, London, N.W.2	1950
FIELDEN, G. St. Clair, c/o Lloyds Bank Ltd., Excter, Devon	1948
FINCHER, Frederick, Randan Wood, Woodcote, Bromsgrove, Worcs	1948
FINNERAN, L. C., Museum of Zoology, University of Michigan, Ann Arbor, Michigan, U.S.A.	1950
FISHER, James M., M.A., Old Rectory, Ashton, Northampton, Northants	1952
FISK, Alan, Biology Department, St. Mary's Hospital Medical School, London, W.2	1947
FITCH, Dr. H., University of Kansas, Zoology Department, Lawrence, Kansas, U.S.A.	1950
*FITZGERALD, Charles, Manstone Cottage, Sidmouth, Devon	1951
FITZGERALD, R., 8 Orchard Way, Aldershot, Hants	1951
FLETCHER, Frederick, 274 Hinckley Road, Leicester, Leics	1949
FRASER-BRUNNER, A., F.Z.S., 11 Bushwood Road, Kew, Surrey	1947
FRAZER, J. F. D., M.A., B.M., F.Z.S., 52 Carlisle Mansions, Carlisle Place, S.W.1	1947
<i>Committee</i> 1951	
FRAZER, O. H., Mottistone Mill, Brighstone, Isle of Wight	1947
FREEMAN, D. H. E., 21 Hutton Gardens, Harrow Weald, Middlesex	1948
FUSSELL, R. H., 136 Argyle Road, London, W.13	1949
GEARING, V. J., 2 Lichfield Road, Grimsby, Lincs	1950
GIBBONS, Frank B., Elmdale, Totnes Road, Paignton, Devon	1951
GILBERT, W. O., F.Z.S., 31 Douglas Road, Luton, Bedfordshire	1949
GILLINGHAM, John Raymond, Sunningdale, 163 Rossmore Road, Parkstone, Dorset	1952
GINGELL, L. V. H., F.Z.S., Somerford Hall School, Corgleton, Cheshire	1950
GODFREY, D. G., 124 Lonsdale Avenue, London, E.6	1951
GOOCH, Bernard, Home Acre, Swanage, Dorset	1947
GOODY, J. K., Weldon, 26 Carrwood Road, Bramhall, Cheshire	1948
GOUGH, M. J., 43 Hectorage Road, Tonbridge, Kent	1949
GREEN, Derek, 49 The Greenway, London, N.W.9	1951
GREEN, H. G., 31 Week Street, Maidstone, Kent	1951
†GREEN, Mrs. Monica, 49 The Greenway, London, N.W.9	1950
<i>Committee</i> 1952	
GREEN, Peter, 15 Holmcroft Way, Bromley, Kent	1949
GREENLOP, L. F. W., 18 Uffington Road, London, S.E.27	1948
GREGORY, Donald, 27 Cambridge Gardens, Beaufort, Monmouth	1948
GWYNNE, J. N. W., The Homestead, Pyrford, Surrey	1949
HAAS, Dr. Geog, The Hebrew University, Jerusalem, Israel	1951
HADDEN, Norman, Underway, West Porlock, Somerset	1951
HAINES, D., Department of Zoology, University of Michigan, Ann Arbor, Michigan, U.S.A.	1950
HAINES, D. F. J., 44 Stride Avenue, Copnor, Portsmouth	1950
HALL, D. E., 48 Thurbarne Road, London, S.E.6	1952
HAMBLIN, A. E., 217 Dartmouth Road, London, S.E.26	1950
HARDY, Jerry D., Jr., 22 Wade Avenue, Baltimore 28, Maryland, U.S.A.	1949
HARTWEG, Dr. Norman, Museum of Zoology, University of Michigan, Ann Arbor, Michigan, U.S.A.	1949
HAYWARD, A. F., 150 Ash Grove, Heston, Middlesex	1951
HAZELWOOD, Mrs. Ellen, F.L.S., 54 Somerset Road, Bolton, Lancs	1947
HECHT, Max K., Department of Herpetology, American Museum of Natural History, Central Park West, New York, N.Y., U.S.A.	1951
HELLYAR, A. R., 17 St. Anne's Road, Hakin, Milford Haven, Pembrokeshire	1949
HEWITSON, H. W., 9 Mosslands Drive, Wallasey, Cheshire	1952
HILL, Dr. W. C. Osman, M.D., F.L.S., F.Z.S., Lancaster House, Prince Albert Road, London, N.W.8	1948
*HOBBS, D. R. W., M.I.W.M., F.Z.S., Mill Hill, Normanton Road, Derby	1949
HOLMES, Alex., 22 Attunga Street, Woolahra, New South Wales, Australia.	1952
*HOOFIEN, Jacob C., c/o Bank Leumi Le Israel B.M., North Branch, Ben Yehudi Street, Tel Aviv, Israel	1947
HOOK, Oliver, Brackenridge, Sway Road, Brockenhurst, Hants	1947
HOPKINS, Peter W., Ashcombe House, York Street, Sidmouth, Devon	1949

HOWLETT, R. P., Maybrook, Windsor Road, Gerrards Cross, Bucks	1951
HUTCHINGS, R. M. C., 12 Ramsden Road, Erith, Kent	1950
ILES, Gerald T., F.Z.S., Longsite Lodge, Redgate Lane, Manchester, 12	1947
INCH, Major Douglas, M.C., 59 Downside Road, Glasgow, W.2	1948
ISHERWOOD, H. N., 16 Lansdowne Road, Gloucester, Glos	1949
IZZARD, G. A., 13 Romney Close, Hook, Surbiton, Surrey	1947
JACKSON, Robert, 1 Park Avenue, Timberley, Cheshire	1948
JACKSON, Ronald, 106 New Church Road, London, S.E.5	1948
JANES, C. T., 151 Warwick Road, London, N.18	1949
JOHNSON, Harold, 5 Moss Avenue, Kingsway, Rochdale, Lancs	1950
JOLLY, K. J., 69 Bridgwater Road, Taunton, Somerset	1948
JONES, E. E. H., M.A., Cold Harbour, Kingsley, Bordon, Hants	1948
KATRITZKY, F. C., 8 Venetia Road, London, N.4	1948
KELLNER, Stephen, 174 Phillips Street, Sydney, Australia	1949
KERR, Thomas, M.A., D.Sc., Zoology Department, The University, Leeds, Yorks	1948
KILBURN, K. B., 104 Leigham Court Drive, Leigh-on-Sea, Essex	1949
KINGSTON, W. R., Springfields, Bechtou, nr. Sandbach, Cheshire	1949
KIRCHIN, A. L., 12 Church Street, New Lenton, Nottingham, Notts	1948
KNIGHT, Major Maxwell, O.B.E., F.L.S., The Homestead, Park Road, Camberley, Surrey	1947
<i>Committee 1947-1951</i>	
LAKE, G. D., Audries, Burghfield Common, Reading, Berks	1948
LAMPRELL, W. F., 58 Buckingham Road, Edgware, Middlesex	1948
LANGMEAD, Dr. L. B., L.R.C.P., 15 Royal Chase, Tunbridge Wells, Kent	1948
LANSBURY, Ivor, 50 Alston Road, Barnet, Herts	1950
LANWORN, R. A., 39 Torrington Park, London, N.12	1948
LANTZ, Louis A., 2 Kinnaird Road, Manchester, 20	1947
LEADLEY-BROWN, Mrs. Alison, M.A., Shell Cottage, Plymtree, nr. Cullompton, Devon	1950
LEE, D. C., Epworth, Frampton Cotterell, Bristol	1951
LEE, T. R., 30 Moor Lane, Wilmslow, Cheshire	1951
LEPEER, Freddy, Kortrykstraat 89, Zvevegem, Belgium	1948
LESTER, John W., F.L.S., c/o Zoological Society of London, Regent's Park, London, N.W.8	1947
<i>Committee 1949-1952</i>	
LEUTSCHER, Alfred, B.Sc., F.Z.S., c/o British Museum (Natural History), Cromwell Road, London, S.W.7	1947
<i>Secretary and Treasurer 1947-1952</i>	
LIDDIE, J. A., B.Sc., 19 Woodbourne Avenue, London, S.W.16	1950
LLOYD, S. C., 720 North Western, Los Angeles, California, U.S.A.	1950
LOOMIS, Richard B., Museum of Natural History, University of Kansas, Kansas, U.S.A.	1950
LOWNDES, Wm. G., 27 Deepdene Gardens, Dorking, Surrey	1947
MABERLEY, C. T. A., P.O. Box 7, Duivelskloof, N.E. Transvaal, South Africa	1948
MCINTYRE, E. J., 43 Speedwell Street, St. Aldates, Oxford	1951
MAEGRAITH, Prof. B. G., Liverpool School of Tropical Medicine, Pembroke Place, Liverpool, 3	1948
MAEERS, Colin, 51 Blenheim Road, St. Johns, Worcester	1951
MANDEVILLE, L. C., L.D.S., 79 Eastcote Road, Ruislip, Middlesex	1948
MANSUETTI, Romeo, 1019 Hillman Street, Baltimore 2, Maryland, U.S.A.	1949
MAPSON, F. St. John, 97 Belmont Hill, London, S.E.13	1949
MARDON, A. S. G., M.R.I.P., F.L.S., 110 Church Lane, London, S.W.17	1950
MARTIN, Paul S., Museum of Zoology, University of Michigan, Ann Arbor, Michigan, U.S.A.	1950
MASH, M. C., 64 Brightwell Avenue, Westcliff-on-Sea, Essex	1949
MASH, Capt. P., R.A.P.C., The Brambles, Dowles Road, Bewdley, near Kidderminster, Worcs	1952
MASON, Peter, 30 High Street, Cleethorpes, Lincs	1950
MATTHEWS, L. Harrison, M.A., D.Sc., F.L.S., Zoological Society of London, Regent's Park, London, N.W.8	1947
MATTHEWS, Mrs. S. A., Walpole, 1 Milverton Hill, Leamington Spa, Warwicks	1950
MAXWELL, Gerald, F.Z.S., 42 Clavering Avenue, London, S.W.13	1949
MEHRTENS, J. M., 74 Eldert Street, Brooklyn, New York, U.S.A.	1949

MELBOURNE, Colin Wm., 21 Hatrell Street, Newcastle-under-Lyme, Staffs	1952
MELOUK, Dr. M. A., Department of Zoology, Faculty of Science, Fouad 1st University, Cairo, Giza, Egypt	1952
†*MENZIES, J. I., 72 Bidwell Gardens, London, N.11	1951
<i>Secretary and Treasurer 1952</i>	
METCALF, G. R., 59 Bartlett Street, Darlington, Durham	1950
MICHAELS, H. C., 19 Nailour Street, Caledonian Road, London, N.7	1951
MIGHELL, E. R., 106 Selbourne Road, London, N.14	1950
MOORE, H. J., Clayesmore School, Iwerne Minster, Blandford, Dorset	1952
MORRIS, G. F. W., Brockley Grange Farm, Brockley Hill, Stanmore, Middlesex	1950
MOSIMANN, James E., Museum of Zoology, University of Michigan, Ann Arbor, Michigan, U.S.A.	1950
MROZEWSKI, Josef, 5 Fairfax House, Bifron Street, London, S.W.10	1948
NEGUS, David, Harbouro, Marley, Haslemere, Surrey	1948
NEILON, Dee Jay, 714 Highlands Park Drive, Billings, Montana, U.S.A.	1951
NOEL-HUME, Ivor, Guildhall Museum, London, E.C.2	1952
O'CONNEL, E. G., 59 Ridgeview Road, London, N.20	1948
OLIVA, Ota, Department of Hydrobiology, Charles University, Vinicna 7, Prague 2, Czechoslovakia	1950
OLIVER, Derek, 567 Bury Road, Rochdale, Lancs	1951
*ORMSBY, A. I., LL.B., 3 Castlereagh Street, Sydney, Australia	1948
OWEN, C. E., Newton, Lockeridge, Marlborough, Wilts	1947
PANCHEN, A. L., 21 Rowan Road, London, S.W.16	1950
PARIZY, Robert, 10 Rue d'Avron, Gagny, Seine et Oise, France	1948
PARKER, Dr. H. W., M.A., F.L.S., Park View, Balcombe Road, Horley, Surrey	1948
<i>Committee 1947-1951</i>	
PARKER, W. E., Dinas Point, Portdindrwic, North Wales	1950
PEARCE, Clive, 200 Reservoir Road, Selly Oak, Birmingham, 29	1947
PEAT, R. M., C.A., Chavreth Hall Farm, Broxtedd, nr. Dunmow, Essex	1947
PENN REYNOLDS, D. M., Flat 507, Portland Court, Wellington Road, Wallasey, Cheshire	1948
PERKINS, Lawrence E., 21 East Dulwich Grove, London, S.E.22	1949
PETERS, James A., Museum of Zoology, University of Michigan, Ann Arbor, Michigan, U.S.A.	1949
PILKINGTON, Arthur, Baumber Cottage, Millfield, Sleaford, Lincs	1949
PITMAN, Ernest J., Branksome House, Branksome Road, St. Leonards, Sussex	1948
PITT, W. S., Wildwood, Silverdale Road, Walton-on-Thames, Surrey	1948
POLLARD, H. W., 9 South Royde Avenue, Halifax, Yorks	1952
POLLARD, M. H., 43 Bedford Street, Strand, London, W.C.2	1949
POLYBLANK, A. C., 76 Redcliffe Square, S.W.10	1951
PORTWAY, L. E., 158 South View Road, Sheffield 7, Yorks	1951
POWELL, Leonard, 343 Wickham Lane, London, S.E.2	1950
POWELL, R. Wood, L.D.S., 32 Curle Avenue, Lincoln	1947
POWLES, John, Park View, Blackmore Road, Abbotsleigh, Bristol, 8	1951
PROCTOR, Rex, F.R.I.C.S., Northgate, Linton-on-Wharf, nr. Wetherby, Yorks	1947
RANKIN, A., School House, The Dell School, Rockferry, Birkenhead, Cheshire	1950
RATA, Samuel, F.Z.S., 50 Dryburgh Gardens, London, N.W.9	1947
RAYMOND, G. H., The Bungalow, Tuesday Close, Godalming, Surrey	1949
READ, E. C., F.R.H.S., F.Z.S., Stoney Corner, Meopham, Kent	1948
REEVES, Peter, 161 Tankerton Road, Tankerton, nr. Whitstable, Kent	1950
RICARDO, Mrs. Mary K., Audreys, Burghfield Common, Reading, Berks	1948
RICHARDS, Miss Jean, 30 Old Road West, Gravesend, Kent	1950
RICHES, R. J., 338 Speedwell Road, St. George, Bristol, 5	1947
RISDON, D. H. S., Redmays, Keston Avenue, Keston, Kent	1949
RIVERS, R., 12 Hillcote Avenue, S.W.16	1950
RIVETT, Miss P. T., 4 Whellock Road, Bedford Park, London, W.4	1951
ROMER, J. D., Pest Control Officer, Urban Council, Hong Kong, China	1947
ROMER, J. G., 7 Ellesmere Gardens, Ilford, Essex	1947
ROOTS, Miss Betty, B.Sc., Lamorna, 16 Castlewood Drive, London, S.E.9.	1949
*ROTHWELL, T. B., Beam Brook, Newdigate, Surrey	1950

RUDGE, J. C., 36 Cranbourne Avenue, London, E.11	1949
RUFFLE, W. G., 6 Maypole Cottages, High Hurstwood, Uckfield, Sussex	1948
*SALMAN, D. H., Le Saulchoir, Soisy-sur-Seine, Seine-et-Oise, France	1952
SAVAGE, Jay M., Natural History Museum, Stanford University, California, U.S.A.	1948
SAVAGE, Dr. R. M., M.A., Rosenlauri, Parkgate Crescent, Hadley Wood, Barnet, Herts	1947
SCHMIDT, K. P., Chicago Natural History Museum, Chicago 5, Illinois, U.S.A.	1951
SCHWARTZ, A., Zoology Department, University of Michigan, Ann Arbor, Michigan, U.S.A.	1947
SEALY, G. R. H., The Homestead, Airlie, Tokai Road, Constantia, Cape Province, South Africa	1947
SEARS, F. H., 59 Oakleigh Park Drive, Leigh-on-Sea, Essex	1951
SINCLAIR, Horace, F.Z.S., 15 Southsea Terrace, Southsea, Hants	1951
†SMITH, B. M., 18 Chesilton Road, London, S.W.6	1947
SMITH, Edgar, P.O. Box 122, Selukwe, Southern Rhodesia	1948
SMITH, Hobart M., Zoology Department, University of Illinois, Urbana, Illinois, U.S.A.	1949
SMITH, Kenneth, 52 St. Albans Avenue, Bournemouth, Hants	1948
SMITH, Dr. Malcolm, Branksome, Old Woking Road, Pyrford, Surrey	1947
SOCHUREK, Eric, Lowengasse 39, Vienna 111/40, Austria	1948
SOUTHWICK, Miss Margaret D., Zoological Society of London, Regent's Park, London, N.W.8	1947
*SPURWAY, Helen, PH.D., Department of Biometry, University College, Gower Street, London, W.C.1	1947
STATT, Robert R., 99 Chillingham Road, Newcastle-on-Tyne, 6	1949
STEGMAN, D. O., Department of Veterinary Services, Blantyre, Nyasaland	1951
*STEPANEK, Dr., c/o Dr. Helen Spurway, Department of Biometry, University College, Gower Street, London, W.C.1	1947
STEPHEN, Dr. A. C., Zoology Department, Royal Scottish Museum, Edinburgh, 1	1948
STEVENSON, P. P. L., F.R.E.S., The Firs, Denton, Grantham, Lincolnshire	1948
SWALE, Trevor, 50 West Side, Clapham Common, London, S.W.4	1948
SWANTON, E. W., M.B.E., Museum Cottage, High Street, Haslemere, Surrey	1947
TATTERSALL, Walton, F.R.H.S., Hillside, East Park Road, Blackburn, Lancs	1951
*TAYLOR, Col. R. H. R., Revere, Bishops Lydeard, Somerset	1947
THOMPSON, J. D., 30 Leyton Green Road, London, E.10	1949
TRANter, J. V., 116 Dudley Road, Tipton, Staffs	1952
TRAPIDO, Dr. Harold, Gorgas Memorial Laboratory, Apd. 1252, Panama, Rio de Panama	1949
TURNER, A. H., F.Z.S., F.R.E.S., Forest Drove, Bickenhall, Hatch Beauchamp, Taunton, Somerset	1947
TWEEDIE, M. W. F., M.A., Raffles Museum, Singapore, Malaya	1948
TWISELTON, George, 5 Norton Road, Kingsthorpe, Northampton	1950
TYLER, Frank, 129 Whitstable Road, Canterbury, Kent	1950
TYLER, Gurney, 11 Prospect Place, Hastings, Sussex	1947
TYLER, H. H., 83 Downs Road, Dunstable, Beds	1948
UNDERWOOD, Garth, Dept. of Zoology, University of the West Indies, Mona, Jamaica, British West Indies	1947
UZZELL, Thomas, Museum of Zoology, University of Michigan, Ann Arbor, Michigan, U.S.A.	1951
*VEVERS, Dr. G. M., F.R.C.S., Zoological Society of London, Whipsnade Park, Dunstable, Beds	1947
WADDINGTON, Prof. C. H., D.Sc., F.R.S., Institute of Animal Genetics, West Mains Road, Edinburgh, 9	1948
WALKER, A. H., 70 Holly Gardens, Thorneywood, Nottingham	1948
WALKER, Dr. Charles, Museum of Zoology, University of Michigan, Ann Arbor, Michigan, U.S.A.	1949
WALSH, E. H., 24 Orchard Avenue, Cheltenham, Glos	1950
WARD, Bernard T., 24 Long Deacon Road, London, E.4	1949

WATKINS, Mrs. G. M., 1 Maycroft, Egerton Road, Bexhill, Sussex	1948
WEBB, B. J., 3 Paradise Parade, Kings Lynn, Norfolk	1949
WEBSTER, R. L., 6 Grotes Place, London, S.E.3	1948
WEEKS, Ronald, F.R.M.S., Department of Physiology, St. Bartholomew's Hospital, (Medical School), Charterhouse Square, London, E.C.1	1947
WERNER, Yehuda, c/o Mrs. Engel, 25 Hakhbashim Street, Jerusalem, Israel	1951
WEST, K. H., 117 Mayplace Road East, Barneshurst, Kent	1950
WHATMOUGH, Grant, 51a Granada Road, Southsea, Hants	1947
WHITE, L. A., A.H.A., 33 Shaftesbury Road, Hornsey Rise, London, N.19	1949
WHITE, Mrs. M. E., 20 Masefield Avenue, Boreham Wood, Herts	1951
WHITE, Norman, 42 Hermiston Avenue, London, N.8	1951
WHITELEY, G. E., Crowtrees, Beechwood Grove, Shipley, Yorks	1950
WILKINS, Lt.-Col. J. S., M.C., Beechurst, London Road, Camberley, Surrey	1949
WILLIAMS, J. C., 10 Derwent Square, Stoneycroft, Liverpool, 13	1949
WILLIAMS, Miss Margaret, 12 Friary Road North, London, N.2	1951
WILSON, Arthur, 92 Crescent Road, Ramsgate, Kent	1947
WILSON-SMITH, A., 56 Hillsborough Road, Glenhills, Blaby, Leics	1949
WOOD, A. C., Lauriston, Western Outway, Grimsby, Lincs	1949
WOOD, R. S., 9 Holland Road, Hove, Sussex	1950
WOODS, Molly E., Interlaken, Woodfield Road, Hadleigh, Essex	1951
WORRELL, M. T. E., 12 Preston Gardens, Luton, Beds	1950

HONORARY MEMBER

LEIGHTON, Dr. Gerald, Sharston, Port Lewaigue, Isle of Man	1952
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The Secretary would be grateful if Members would draw attention to any errors or omissions in the above list.